

Amendments to the Claims

1. (Currently Amended) A method of automating testing of a communication system including communication resources, the method comprising:

selecting a first test for execution from a plurality of tests stored in a test database;

processing the first test to identify at least one first communication resource related to the first test;

determining if the at least one first communication resource related to the first test is available for the first test before executing the first test; and

generating a first execute instruction to execute the first test responsive to determining that the at least one first communication resource related to the first test being is available for the first test; and

storing the first test back in the test database responsive to determining that the at least one first communication resource related to the first test is not available for the first test.

2. (Cancelled)

3. (Original) The method of claim 1 further comprising receiving the plurality of tests for storage in the test database.

4. (Original) The method of claim 1 further comprising processing the first test to determine if the first test requests an exclusive use of the at least one first communication resource.

5. (Original) The method of claim 1 further comprising processing the first test to determine if the first test requests a general use of the at least one first communication resource.

6. (Currently Amended) The method of claim 1 further comprising selecting a second test for execution from the plurality of tests stored in the test database.

7. (Previously Presented) The method of claim 6 further comprising processing the second test to identify at least one second communication resource related to the second test.

8. (Original) The method of claim 7 further comprising determining if the at least one second communication resource related to the second test is available for the second test before executing the second test.

9. (Currently Amended) The method of claim 8 further comprising generating a second execute instruction to execute the second test responsive to determining that the at least one second communication resource related to the second test ~~being~~ is available for the second test.

10. (Currently Amended) The method of claim 9 further comprising storing the second test back in the test database responsive to determining that ~~one of~~ the at least one second communication resource related to the second test is not available for the second test.

11. (Currently Amended) A resource management system, comprising:

a test database configured to store a plurality of tests; and

a processing system coupled the test database and configured to select a first test for execution from the plurality of tests stored in the test database, process the first test to identify at least one first communication resource related to the first test, determine if the at least one first communication resource related to the first test is available for the first test before executing the first test, ~~and~~ generate a first execute instruction to execute the first test responsive to determining that the at least one first communication resource related to the first test ~~being~~ is available for the first test, and store the first test back in the test database responsive to determining that the at least one first communication resource related to the first test is not available for the first test.

12. (Cancelled)

13. (Previously Presented) The resource management system of claim 11 wherein said processing system is further configured to couple to a test apparatus and receive the plurality of tests from the test apparatus.

14. (Previously Presented) The resource management system of claim 13 wherein said processing system is further configured to transfer test results of the first test to the test apparatus.

15. (Original) The resource management system of claim 11 wherein said processing system is further configured to couple to a resource database, wherein the resource database is configured to store a list of communication resources.

16. (Original) The resource management system of claim 11 wherein said processing system is further configured to process the first test to determine if the first test requests an exclusive use of the at least one first communication resource.

17. (Original) The resource management system of claim 11 wherein said processing system is further configured to process the first test to determine if the first test requests a general use of the at least one first communication resource.

18. (Currently Amended) The resource management system of claim 11 wherein said processing system is further configured to select a second test for execution from the plurality of tests stored in said test database.

19. (Original) The resource management system of claim 18 wherein said processing system is further configured to process the second test to identify at least one second communication resource related to the second test.

20. (Original) The resource management system of claim 19 wherein said processing system is further configured to determine if the at least one second communication resource related to the second test is available for the second test.

21. (Currently Amended) The resource management system of claim 20 wherein said processing system is further configured to generate a second execute instruction to execute the second test responsive to determining that the at least one second communication resource related to the second test ~~being~~ is available for the second test.

22. (Currently Amended) The resource management system of claim 21 wherein said processing system is further configured to store the second test back in said test database responsive to determining that ~~one of the~~ at least one second communication resource related to the second test is not available for the second test.

23. (Currently Amended) A software product for managing the testing of a communication system including communication resources, the software product comprising:

resource management software configured when executed by a processor to select a first test for execution from a plurality of tests stored in a memory, process the first test to identify at least one first communication resource related to the first test, determine if the at least one first communication resource related to the first test is available for the first test, and generate a first execute instruction to execute the first test responsive to determining that the at least one first communication resource related to the first test ~~being~~ is available for the first test, and store the first test back in the memory responsive to determining that the at least one first communication resource related to the first test is not available for the first test; and

a computer-readable medium configured to store the resource management software.

24. (Cancelled)

25. (Original) The software product of claim 23 wherein the resource management software is further configured when executed by the processor to store the plurality of tests.

26. (Original) The software product of claim 23 wherein the resource management software is further configured when executed by the processor to generate a resource database that contains a list of communication resources.

27. (Original) The software product of claim 23 wherein the resource management software is further configured when executed by the processor to determine if the first test requests an exclusive use of the at least one first communication resource.

28. (Original) The software product of claim 23 wherein the resource management software is further configured when executed by the processor to determine if the first test requests a general use of the at least one first communication resource.

29. (Currently Amended) The software product of claim 23 wherein the resource management software is further configured when executed by the processor to select a second test for execution from the plurality of tests stored in the memory.

30. (Original) The software product of claim 29 wherein the resource management software is further configured when executed by the processor to identify at least one second communication resource related to the second test.

31. (Original) The software product of claim 30 wherein the resource management software is further configured when executed by the processor to determine if the at least one second communication resource related to the second test is available for the second test.

32. (Currently Amended) The software product of claim 31 wherein the resource management software is further configured when executed by the processor to generate a second execute instruction to execute the second test responsive to determining that the at least one second communication resource related to the second test being is available for the second test.

33. (Currently Amended) The software product of claim 32 wherein the resource management software is further configured when executed by the processor to store the second test back in the memory responsive to determining that ~~one of~~ the at least one second communication resource related to the second test is not available for the second test.